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DATE: December 19, 2005

PTO IDENTIFIER: Application Number 08/728,463-Conf. #2701
ALLOWED SEPTEMBER 20, 2005
ISSUE FEE DUE DECEMBER 20, 2005***

Inventor: Nils Lonberg et al.

MESSAGE TO: US Patent and Trademark Office
Examiner P. J. Nolan
C/O SUPERVISOR: CHRISTINA CHAN
Art Unit 1644
FAX NUMBER: (571) 273-8300

FROM: DARBY & DARBY P.C.

Jeffrey C. Pepe

PHONE: (206) 262-8911

Attorney Dkt. #: 04280/1201643-US2

PAGES (including Cover Sheet): 24

CONTENTS: COPY of Auto-Reply Fax Transmission (1 page)
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Transmittal (1 page)
Request For Acknowledgment Of Previously Submitted Information Disclosure Statement (IDS) (2 pages)
Copy of IDS Postcard (1 page)
Copy of IDS of 01/24/97 (2 pages)
Copy of PTO-1449 (12 pages)
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Dear Ms. Chan - Further to my voice mail message of today, we ask that this IDS be signed off and returned via facsimile by Tuesday, 12/20/05 so that we may pay the issue fee in this application. Your help in this matter is greatly appreciated.

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Oct 28 05 1:38a	DarbyFax	2062628901	P.1
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DATE: October 28, 2005 PTO IDENTIFIER: Application Number 09/718,463-Conf. #2701 Inventor: Nils Lohberg et al. US Patent and Trademark Office Examiner P.J. Nolan Art Unit 1644 FAX NUMBER: (571) 273-8300			
FROM: DARBY & DARBY P.C. Jeffrey C. Pepc PHONE: (206) 262-5911 Attorney Dkt. #: 042801201643-L52			
PAGES (Including Cover Sheet): 22 CONTENTS: <ul style="list-style-type: none"> Certificate of Transmission (1 page) Transmittal (1 page) Request For Acknowledgment Of Previously Submitted Information Disclosure Statement (IDS) (2 pages) Copy of IDS Postcard (1 page) Copy of IDS of 01/24/02 (2 pages) Copy of RTO-1449 (12 pages) Copy of References Sent Postcard (1 page) Copy of Transmittal of References Sent on 03/09/01 (1 page) 			
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PAGE 1/24 * RCVD AT 12/19/2005 5:08:56 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-6/33 * DNI:2738300 * CSID:2062628901 * DURATION (mm:ss):10-12

FAX TRANSMISSION

DATE: October 28, 2005

PTO IDENTIFIER: Application Number 08/728,463-Conf. #2701
ALLOWED SEPTEMBER 20, 2005

Inventor: Nils Lonberg et al.

MESSAGE TO: US Patent and Trademark Office
Examiner P. J. Nolan
Art Unit 1644

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Jeffrey C. Pepe

PHONE: (206) 262-8911

Attorney Dkt #: 04280/1201643-US2

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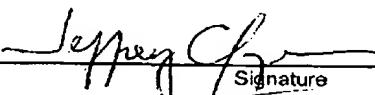
Application No. (if known): 08/728,463

Attorney Docket No.: 04280/1201643-US2

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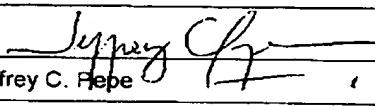
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TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>		Application Number	08/728,463-Conf. #2701
		Filing Date	October 10, 1996
		First Named Inventor	Nils Lonberg
		Art Unit	1644
		Examiner Name	P. J. Nolan
Total Number of Pages in This Submission	22	Attorney Docket Number	04280/1201643-US2

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
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<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	Request for Acknowledgement of IDS (2 pp), Copy IDS Postcard (1 page), Copy IDS of 1/24/97 (2 pages), Copy of PTO-1449 (12 pages), Copy of Refs Sent Postcard (1 page), Copy of Transmittal of Refs Sent (1 page), Certificate of Facsimile Transmittal (1 page), Fax Cover (1 page)	

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	DARBY & DARBY P.C.		
Signature			
Printed name	Jeffrey C. Repe		
Date	October 28, 2005	Reg. No.	46,985

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DEC 19 2005

Docket No.: 04280/1201643-US2
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Nils Lonberg et al.

Allowed: September 20, 2005

Application No.: 08/728,463

Confirmation No.: 2701

Filed: October 10, 1996

Art Unit: 1644

For: TRANSGENIC NON-HUMAN ANIMALS
FOR PRODUCING HETEROLOGOUS
ANTIBODIES

Examiner: P. J. Nolan

**REQUEST FOR ACKNOWLEDGMENT OF PREVIOUSLY SUBMITTED
INFORMATION DISCLOSURE STATEMENT (IDS)**

MS Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

This application has been allowed and the issue fee is due December 20, 2005.

It has come to our attention that the Form PTO-1449 (12 pages) submitted with the initial Information Disclosure Statement (IDS) in the instant application, has not yet been acknowledged.

The IDS, Form PTO-1449, and 5 references were mailed on January 24, 1997 and received by the U.S. Patent and Trademark Office (USPTO) on January 28, 1997 (please see attached copy of return receipt postcard). The USPTO PAIR system shows that the IDS was filed, and a copy of the 2 pages of IDS appears on the Image File Wrapper on PAIR. However, a copy of the 12 pages of PTO-1449 does not appear on the Image File Wrapper for this application, nor do the 5 references submitted.

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Request For Acknowledgment Of Previously
Submitted Information Disclosure Statement (IDS)
Application No.: 08/728,463

2

Docket No.: 04280/1201643-US2

Our records also show that copies of these references were forwarded to Examiner Amy Decloux on March 9, 2001 and received by the USPTO on March 15, 2001 (see attached copy of Return Receipt Postcard and Transmittal form).

Accordingly, Applicants respectfully request that the 12 pages of PTO-1449, originally submitted January 28, 1997 (as noted above and enclosed herewith), be reviewed by the Examiner and acknowledged.

Applicants appreciate the Examiner's prompt response to this submission.

Dated: October 28, 2005

Respectfully submitted,

By 
Jeffrey C. Repe
Registration No.: 46,985

DARBY & DARBY P.C.
P.O. Box 5257
New York, New York 10150-5257
(206) 262-8900
(212) 527-7701 (Fax)
Attorneys/Agents For Applicant

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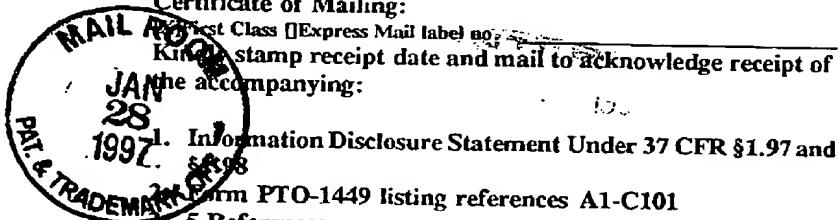
APPLICANT: L.I.S LONBERG et al.

Title: TRANSGENIC NON-HUMAN ANIMALS FOR
PRODUCING HETEROLOGOUS ANTIBODIES

Serial No: 08/728,463 Filed: October 10, 1995

Fee (if any) \$0.00 CheckEnclosed[] Yes[X] No

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File No.: 014643-009020US

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1/24/97

TOWNSEND and TOWNSEND and CREW LLP

By Karen M. Williamson

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PATENT

Attorney Docket No. 014643-009020US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:)
NILS LONBERG et al.) Examiner: UNASSIGNED
Application No.: 08/728,463) Art Unit: UNASSIGNED
Filed: 10 October, 1996) INFORMATION DISCLOSURE
For: TRANSGENIC NON-HUMAN) STATEMENT UNDER
ANIMALS FOR PRODUCING) 37 CFR §1.97 and §1.98
HETEROLOGOUS ANTIBODIES)
)
)

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The disclosures cited on attached form PTO-1449 are being called to the attention of the Examiner. Copies of some of the disclosures (references A1-C96) are not being provided pursuant to 37 C.F.R. 1.98(d), as those disclosures have been previously cited by or submitted to the Patent Office in prior applications Serial Nos. 07/810,279, 07/853,408, 08/161,739, 08/165,699, 08/096,762, 08/352,322, and 08/209,741, to which the above identified application claims priority.

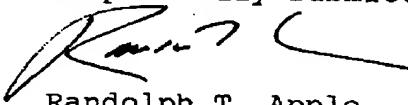
This information disclosure statement is being filed before the mailing date of the first office action on the merits.

Niels LONGBERG et al.
Application No.: 08/728,463
Page 2

PATENT

It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the disclosures be made of record therein and appear among the "references cited" on any patent to issue therefrom.

Respectfully submitted,



Randolph T. Apple
Reg. No. 36,429

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, 8th Floor
San Francisco, California 94111-3834
(415) 576-0200
Fax (415) 576-0300
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Mailing Date: March 9, 2001 First Class Mail
File No.: 014643-009020us Attorney: ATS/ksj
Application No.: 08/728,463 Filed: October 10, 1996 MAR 29 2001
Inventor(s): LONBERGet al.
Title: TRANSGENIC NON-HUMAN ANIMALS FOR PRODUCING HETEROLOGOUS ANTIBODIES

References cited in the Information Disclosure Statement previously filed and referenced in the parent case, application no. 08/352,322

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TRANSMITTAL FORM

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	08/728,463	
	Filing Date	October 10, 1996	
	First Named Inventor	Lonberg, Nils, et. al.	
	Group Art Unit	1644	
	Examiner Name	DeCloux, Amy	
Total Number of Pages in This Submission	3	Attorney Docket Number	14643009020

ENCLOSURES (check all that apply)		
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Remarks		The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm and Individual name	Townsend and Townsend and Crew LLP Andrew T. Serafini	
	Reg No. 41,303	
Signature		
Date	03 09 01	

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Signature	
Date	3.9.01

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FORM PTO-1449 (Modified)

LIST OF PATENTS AND PUBLICATIONS
FOR APPLICANT'S INFORMATION
DISCLOSURE STATEMENT
(Use Several Sheets if Necessary)

PAGE 1 OF 12

Attorney Docket No. 14643-009000	Serial No. 08/352,322
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Applicant NILS LONBERG and ROBERT M. KAY

Filing Date December 7, 1994	Group 1804
---------------------------------	---------------

<u>Reference Designation</u>		<u>U.S. PATENT DOCUMENTS</u>					
<u>Examiner</u>	<u>Initial</u>	<u>Document No.</u>	<u>Date</u>	<u>Name</u>	<u>Class</u>	<u>Subcl:</u>	<u>File Date If Approp</u>
	A1	4,204,244	04/20/93	Fell et al.	435		
	A2	5,175,384	12/29/92	Krimpenfort	800		
	A3	5,434,340	07/18/95	Krimpenfort	800		

COPYFOREIGN PATENT DOCUMENTS

	<u>Document No.</u>	<u>Date</u>	<u>Country</u>	<u>Class</u>	<u>Subcl:</u>	<u>Trans.</u>	<u>Yes</u>	<u>No</u>
	B1	EP 0 315 062	05/10/89	EP				
	B2	WO 90/04036	04/19/90	PCT				
	B3	WO 90/12878	11/01/90	PCT				
	B4	WO 92/03918	03/19/92	PCT				
	B5	WO 91/10741	07/25/91	PCT				
	B6	WO 91/00906	01/24/91	PCT				

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

- ____ C1 Alt et al., Immunoglobulin genes in transgenic mice, TIG - August 1985
- ____ C2 Berman et. al., Content and organization of the human Ig V_H locus: definition of three new V_H families and linkage to the Ig C_H locus, The EMBO J. 7:727-738 (1988)
- ____ C3 Berton et. al., Synthesis of germ-line γ1 immunoglobulin heavy-chain transcripts in resting B cells: Induction by interleukin 4 and inhibition by interferon γ, Proc. Natl. Acad. Sci. (U.S.A) 86:2829-2833 (1989)
- ____ C4 Bollag et al., Homologous recombination in mammalian cells, Annu. Rev. Genet. 23:199-225 (1989)

EXAMINER

DATE CONSIDERED

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PAGE 3 OF 11

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Applicant NILS LONBERG and ROBERT M. KAY

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---------------------------------	---------------

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

- ____ C5 Bruggemann et al., Human antibody production in transgenic mice: expression from 100 kb of the human IgH locus, Eur. J. Immunol. 21:1323-1326 (1991)
- ____ C5(i) Bruggemann et al., A repertoire of monoclonal antibodies with human heavy chains from transgenic mice, Proc. Natl. Acad. Sci. USA 86:6709-6713 (1989)
- ____ C6 Bucchini et al., Rearrangement of a chicken immunoglobulin gene occurs in the lymphoid lineage of transgenic mice, Nature 326:409-411 (1987)
- ____ C7 Capecchi, The new mouse genetics: Altering the genome by gene targeting, TIG 5:70-76 (1989)
- ____ C8 Capecchi, Altering the genome by homologous recombination, Science 244:1288-1292 (1989)
- ____ C9 Coffman et. al., T cell activity that enhances polyclonal IgE production and its inhibition by interferon- γ , J. Immunol. 136:949-954 (1986)
- ____ C10 Coffman et al., A mouse T cell product that preferentially enhances IgA production, J. Immunol. 139:3685-3690 (1987)
- ____ C11 Doetschman et al., Targetted correction of a mutant HPRT gene in mouse embryonic stem cells, Nature 330:576-578 (1987)
- ____ C12 Durdik et al., Isotype switching by a microinjected μ immunoglobulin heavy chain gene in transgenic mice, Proc. Natl. Acad. Sci. USA 86:2346-2350 (1989)
- ____ C13 Esser and Radbruch, Rapid induction of transcription of unarranged Syl switch regions in activated murine B cells by interleukin 4, The EMBO J. 8:483-488 (1989)

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PAGE 3 OF 11

Attorney Docket No.
14643-009000Serial No.
08/352,322Applicant
NILS LONBERG and ROBERT M. KAYFiling Date
December 7, 1994Group
1804OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

C13(i) Ferrier et al., Separate elements control DJ and VDJ rearrangement in a transgenic recombination substrate, The EMBO J. 9:117-125 (1990)

C14 Forni, extensive splenic B cell activation in IgM-transgenic mice, Eur. J. Immunol. 20:983-989 (1990)

C15 Gerstein et al., Isotype switching of an immunoglobulin heavy chain transgene occurs by dna recombination between different chromosomes, Cell 63:537-548 (1990)

C16 Goodhardt et al., Rearrangement and expression of rabbit immunoglobulin κ light chain gene in transgenic mice, Proc. Natl. Acad. Sci. (U.S.A.) 84:4229-4233 (1987)

C17 Gordon, Transgenic mice in immunology, The Mount Sinai Journal of Medicine 53:223-231 (1986)

C18 Hagman et al., Inhibition of immunoglobulin gene rearrangement by the expression of a λ2 transgene, J. Exp. Med. 169:1911-1929 (1989)

C19 Ichihard et al., Organization of human immunoglobulin heavy chain diversity gene loci, The EMBO J. 7:4141-4150 (1988)

C20 Iglesias et al., Expression of immunoglobulin delta chain causes allelic exclusion in transgenic mice, Nature 330:482-484 (1987)

C21 James and Bell, Human monoclonal antibody production current status and future prospects, J. of Immunol. Methods 100:5-40 (1987)

C22 Jasin and Berg, Homologous integration in mammalian cells without target gene selection, Genes & Development 2:1353-1363 (1988)

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C23 Kenny et al., Alternation of the B cell surface phenotype, immune response to phosphocholine and the B cell repertoire in M167 α plus κ transgenic mice, J. of Immunol. 142:4466-4474 (1989)

C22(i) Jung et al., Shutdown of class switching recombination by deletion of a switch region control element, Science 259:984-987 (1993)

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